

Appendix E - Fuel Specifications for Emissions Certification Purposes

EPA - Natural Gas Certification (Test) Fuel for Exhaust and Evaporative Emission Testing

Constituent	Certification Test Fuel for Exhaust and Evaporative Emission Testing ^a
Methane	Minimum of 89.0
Ethane	Maximum of 4.5
C ₃ and higher	Maximum of 2.3
C ₆ and higher	Maximum of 0.2
Oxygen	Maximum of 0.6
Inert Gases	Maximum of 4.0
Odorant	The natural gas at ambient conditions must have a distinctive odor potent enough for its presence to be detected down to a concentration in air of not over one-fifth of the lower limit of flammability.

^a All units are in mole percent

California - Natural Gas Certification (Test) Fuel and Commercial Fuel

Constituent	Certification Test Fuel for Exhaust and Evaporative Emission Testing ^a	Commercial Fuel for Mileage Accumulation ^a
Methane	90.0% ± 1%	Minimum of 88.0%
Ethane	4.0% ± 0.5%	Maximum of 6.0%
C ₃ and higher	2.0% ± 0.3%	Maximum of 3.0%
Oxygen	maximum of 0.5%	Maximum of 1.0%
Inert Gases	3.5% ± 0.5%	1.5% to 4.5%

^a All units are in mole percent

California - Liquefied Petroleum Gas Certification (Test) Fuel and Commercial Fuel

Constituent	Certification Test Fuel for Exhaust and Evaporative Emission Testing	Commercial Fuel for Mileage Accumulation
Propane	93.5% ± 1.0 % by volume	Minimum of 85.0% by volume
Butane and heavier	1.9% ± 0.3% by volume	Maximum of 2.5% by volume
Propene	3.8% ± 0.5% by volume	Maximum of 5.0% by volume